DOCUMENT RESUME

ED 357 763 IR 054 575

TITLE Library Technology Grants Awarded To Support Networking and Resource-Sharing Activities, Fiscal Year 1992.

INSTITUTION Office of Educational Research and Improvement (ED), Washington, DC. Office of Library Programs.

REPORT NO LP-93-4012

PUB DATE 93

NOTE 22p.

PUB TYPE Reference Materials - Directories/Catalogs (132) -- Reports - Descriptive (141)

EDRS PRICE MF01/PC01 Plus Postage.

DESCRIPTORS Abstracts; *Academic Libraries; Demonstration Programs; Federal Aid; *Federal Programs; *Grants; Higher Education; Library Automation; *Library Development; Library Facilities; Library Networks; Library Services; Online Systems; Program Descriptions; *Resource Allocation; Shared Library Resources

ABSTRACT

This report provides an annotated listing of 30 institutions receiving grants from the U.S. Department of Education under the College Library Technology and Cooperation Grants Program during 1992 in the following four categories: (1) networking grants; (2) combinations grants; (3) services to institutions; and (4) research and demonstration. These awards support networking and resource-sharing activities and are made primarily to academic libraries, although state and public libraries and other non-profit organizations are eligible. Also included are several institutions receiving grants under the categories of (1) non-competing continuations, and (2) biotechnology education information demonstration project grants. The listing format includes the following information: college name, address, and phone number(s); the appropriated amount and number of years involved; and the name and description of the project. Also included is a summary listing of the colleges and universities receiving grants, the amount funded, and subtotals of funding in each category. (GLR)

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ED357763

Library Programs

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Library Technology Grants Awarded To Support Networking and Resource-Sharing Activities Fiscal Year 1992

In late September 1992, the U.S. Department of Education completed awards under the College Library Technology and Cooperation Grants Program. The 30 grants (24 new, 5 continuation and 1 biotechnology) totaled $6,404,000 and went to institutions in 24 states and the District of Columbia. These awards support networking and resource-sharing activities and are made primarily to academic libraries, although state and public libraries and other nonprofit organizations are eligible.

Authorized under Title II-D of the Higher Education Act, the program is administered by the Office of Library Programs within the Office of Educational Research and Improvement. Direct grants are awarded in the following four categories: **Networking** grants to plan, develop, acquire, install, maintain, or replace technological equipment necessary to participate in networks for sharing of library resources. **Combination** grants to establish and strengthen joint-use library facilities, resources, or equipment. **Services to Institutions** grants to establish, develop, or expand programs or projects that improve information services provided to institutions of higher education. **Research and Demonstration** grants to conduct research or demonstration projects to meet specialized national or regional needs in using technology to enhance library and information services. Funds for the Biotechnology Education Information Demonstration Project grant were appropriated only for fiscal year 1992. A total of 260 applications, requesting $35,056,317, was received for the fiscal year 1992 competition. The table below reports the number of applications received and new awards made for each of the four grant categories. The biotechnology competition and the continuation awards are not included in the table.

	Networking	Combination	Services to Institutions	Research and Demonstration
Awards				
Number of awards	16	4	2	2
Total dollars awarded	$ 1,811,322	$ 849,284	$ 565,542	$ 256,897
Average size of award	$ 113,208	$ 212,321	$ 282,771	$ 128,449
Applications				
Applications received	146	40	18	56
Total dollars requested	$15,335,024	$ 8,784,053	$3,085,730	$7,851,510
Average request	$ 105,034	$ 219,601	$ 171,429	$ 140,206

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Of the five continuation awards, four were **Research and Demonstration** projects, and one was a **Networking** project.

The total appropriation for the FY 1992 competition was $6,404,000 ($3,904,000 for Title II-D, Parts A-D and $2,500,000 for the Biotechnology Education Information Demonstration Project). All of the funds were awarded: $3,483,045 for the 24 new grants; $420,955 for the five continuation grants; and $2,500,000 for the one biotechnology grant.

Projects supported by the College Library Technology and Cooperation Grants Program are very diverse. Below are a few examples.

Networking—Hood College will extend networking and resource sharing in the state of Maryland with a $45,695 grant by linking its library to the University of Maryland System (UMS) which is linked to CARL Systems. Participation in the shared automated system will provide the students and faculty at Hood College with efficient and rapid access to the combined catalogs of the UMS libraries as well as to other systems such as the University of California, the University of Hawaii, and Northeastern University. These institutions will, in turn, have access to the collection at Hood College.

Combination—The libraries composing the Triangle Libraries Research Network (North Carolina University, University of North Carolina at Chapel Hill, and Duke University) will develop an automated document delivery system using a network-based client/server approach during this 2-year project funded at $321,652.

Services to Institutions—The Westchester Academic Libraries Directors Organization project, funded at $358,681, is for a full text image delivery system. The system is designed to provide access to full text image of periodical articles for more than 99,000 patrons at 19 institutions. It will also allow a patron to first search for citations in two University Microfilms Incorporated databases using the basic OPAC commands.

Research and Demonstration—This University of Minnesota project is designed to provide end users with direct access to locally owned and remotely accessed digital cartographic information by employing the latest mapping software and geographic information system (GIS). The 2-year project received $133,058 for the first year of operation.

For more details, please see the listing of 30 projects (with abstracts) on the following pages. There is also a summary listing on the last two pages.

For additional information, please contact:

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Office of Library Programs/OERI
U.S. Department of Education
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Washington, DC 20208-5571
Phone: (202) 219-1871

E-Mail or Fax
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INTERNET : N4K@CU.NIH.GOV
TELEFAX : (202) 219-1725

NETWORKING GRANTS

Arizona State University
Sherrie Schmidt, Dean
University Libraries
Tempe, Arizona 85287
602-965-3956
FAX: 602-965-9169
INTERNET: IDSXS@ASUVM.INRE.ASU.EDU
BITNET: IDSXS@ASUACAD
R197A20013 $271,829 (year 1*) 3 years

PHOENIX METRO IMAGE PROJECT

This project will provide electronic access to a serial indexing service (i.e., UMI's ABI/INFORM) and the full-text delivery of article images to participating libraries. In addition, the project will improve cooperation among participating organizations and improve library services for patrons of the Phoenix metropolitan area. Project goals include:

- To provide access to ABI/INFORM from University Microfilms Incorporated (UMI) at Arizona State University for consortium use (Arizona State University, Maricopa Community Colleges, and Phoenix Public Library);
- To establish a link between Arizona State University and Phoenix Public Library;
- To develop and evaluate a UNIX-based request server to enable the automatic transmission of imaged articles in response to requests by users (Z39.50 compliant).

*This project will be eligible for a noncompeting continuation award for years 2 and 3.

Hawaii Loa College
James V. Di Giambattista
Head Librarian
45-045 Kamehameha Highway
Kaneohe, Hawaii 96744
808-235-3641
R197A10084 $23,416 1 year

HEALTHFAX MEMBERSHIP PROJECT

The HEALTHFAX Membership Project establishes a bookmode telefax link between students and faculty in the bachelor of science nursing program at Hawaii Loa College and all member libraries of the Hawaii Medical Library Group for the purpose of interlibrary loan of periodicals in nursing, medicine, and healthcare. It also links the medical holdings in the Hawaii Loa College Library with other members of the Hawaii Medical Library Group. The B.S. in nursing program at Hawaii Loa College is the second largest nursing education program in the State of Hawaii and is designed to serve the needs of students already working in healthcare settings. Membership in HEALTHFAX provides them with convenient, off-site access to periodicals not held in the college library. Through HEALTHFAX, students also gain access to the National Library of Medicine Biomedical Library Network via Docline.

Oakton Community College
Gary Newhouse, Director
Library and Television Services
1600 East Golf Road
Des Plaines, Illinois 60016
708-635-1893
FAX: 708-635-1987
INTERNET: AXVOAGN@UICVMC.AISS.UIUC.EDU
BITNET: AXVOAGN@UICVMC
R197A20098 $171,653 3 years

ACADEMIC ENHANCEMENT AND RESOURCE SHARING THROUGH TELECOMMUNICATIONS NETWORKS

This project is designed to enhance Oakton's academic programming and increase its resource sharing by strengthening the library's electronic information retrieval capability.

The project will (1) increase the number of ILLINET Online access points from 6 (located in the library) to over 500 throughout both Oakton campuses by connecting Oakton's LAN to Internet; (2) acquire and install CD ROM database on Oakton's LAN to complement those to be offered by ILLINET Online; (3) acquire dial-in and dial-through capabilities for Oakton's Academic Network, allowing off-campus users to have 24-hour access to ILLINET and Internet services; and (4) conduct appropriate ongoing training for faculty, staff and students.

Rockford College
Jim Michna, Director
Howard Colman Library
5050 East State Street
Rockford, Illinois 61108-2393
815-226-4036
FAX: 815-226-4119
R197A20064 $70,455 1 year

LIBRARY CATALOG AND CIRCULATION AUTOMATION AND RESOURCE-SHARING PROJECT

Rockford College will complete a comprehensive catalog and circulation automation project which will enable the institution to join the Northern Illinois Community College Consortium, a resource-sharing network of academic libraries. Rockford College will acquire the BiblioFile Public Access Catalog with a "DialCat" remote access component and the Bibliofile Circulation System. This equipment is fully compatible with that of all Consortium members. Joining the Consortium will stimulate scholarly activity on the Rockford College campus by providing the more that 1,500 full- and part-time students with access to over 150,000 additional titles, especially those in scientific and technological fields. Conversely, Rockford College will enhance the Consortium by adding over 100,000 new titles to its holdings, increasing the Consortium's resource-sharing potential by more than 66 percent. Academic programs at the college will be strengthened by additional research and supplemental reading materials available through the Consortium.

Louisiana State University
Jennifer Cargill
Dean of Libraries
LSU Libraries
295 Middleton Library
Baton Rouge, Louisiana 70803
504-388-2217
FAX: 504-388-6825
BITNET: NOTJSC@LSUVM
INTERNET: NOTJSC@LSUVM.SNCC.LSU.EDU

R197A20060 $162,469 2 years

LOUISIANA ACADEMIC LIBRARY NETWORK

To make five of Louisiana's smaller academic libraries "network ready" so they will be able to participate in the Louisiana Academic Library Network requires modification of software at LSU, new hardware at the five libraries and training of librarians. This project complements another ongoing project that will connect six larger academic libraries.

A unique opportunity exists to develop a network before the libraries purchase individual systems. LSU purchased NOTIS software in 1985 under an agreement permitting any number of separate institutions to use the software with no additional fees if the program remains on a single mainframe. LSU has the expertise necessary, having automated its library system and the libraries at the School of Veterinary Medicine and the Law Center, to undertake this project.

The Board of Regents and the Office of Telecommunications Management support the development of the network. This project is one part of a long-term goal to link all academic libraries, public and private, and then to provide information access to the state's non-academic libraries.

Berkshire Community College
Nancy Walker, Director of the Library
1350 West Street
Pittsfield, Massachusetts 01201
413-499-4660 x201
FAX: 413-448-2700
INTERNET: NWALKER@RCNVMS.RCN.MASS.EDU
R197A20069 $86,761 3 years

BERKSHIRE COMMUNITY COLLEGE NETWORKING WITH C/W MARS

Berkshire Community College proposes to improve the resource-sharing services available to its students and the community through further use of technology and networking. The college will become a member of the Central/Western Massachusetts Automated Resource Sharing (C/W MARS) Network. C/W MARS is a group of

more than 70 libraries dedicated to sharing an online circulation system and building an online public access catalog. As a result of acquiring the computer equipment necessary to participate in C/W MARS, the college will dramatically improve service and expand accessibility of resource materials to faculty and students.

Greenfield Community College
Carol G. Letson
Director of the Library
Greenfield, Massachusetts 01301
413-774-3131
R197A20073 $69,456 3 years

GREENFIELD COMMUNITY COLLEGE NETWORKING WITH C/W MARS

Greenfield Community College (GCC) will develop and acquire resources necessary for improving information-sharing services to the college community and the public through the use of technology and networking.

GCC will complete the creation of machine-readable library files, purchase and install the computer equipment necessary to participate as both a borrower and a lender in the Central/Western Massachusetts Automated Resource Sharing (C/W MARS) Network. C/W MARS is a group of more than 70 college and public libraries sharing an on-line circulation system and building an on-line public access catalog.

The impact of this project will improve services to all Massachusetts residents served by the network and provide expanded resource materials to faculty, students, and other users of the GCC library, the only college library in Franklin County, MA.

Westfield State College
Jeannine Uppgard
Director of Library Services (acting)
577 Western Avenue
Westfield, Massachusetts 01086
413-568-3311
FAX: 413-562-3613
INTERNET: JUPPGARD@ECN.MASS.EDU
R197A20057 $118,891 3 years

WESTFIELD STATE COLLEGE NETWORKING WITH C/W MARS

Westfield State College will acquire the resources to improve resource-sharing services through the use of technology and networking.

Westfield State College will purchase and install computer equipment necessary to participate as both a borrower and a lender in the Central/Western Massachusetts Automated Resource-Sharing (C/W MARS) Network. C/W MARS is a group of more than 70 libraries dedicated to sharing an online circulation system and building an online public access catalog.

The impact of this project will be to improve services to all patrons and provide expanded resource materials to faculty, students, and area residents.

Hood College
Charles L. Kuhn
Director of the Library
Rosemont Avenue
Frederick, Maryland 21701
301-696-3930
FAX: 301-696-3796
INTERNET: KUHN@MERLIN.HOOD.EDU
R197A20117 $45,695 1 year

HOOD COLLEGE NETWORKING WITH UMS

The project will extend networking and resource sharing in the state of Maryland by linking the Hood College Library to the Colorado Alliance of Research Libraries Systems (CARL) through the University of Maryland System (UMS). Participation in the shared automated system now being implemented at UMS will provide the students and faculty of Hood College with efficient and rapid access to the combined catalogs of the University of Maryland System libraries as well as to other systems such as the University of California, University of Hawaii and Northeastern University.

Networking capability will be accomplished by purchasing and installing terminals and telecommunications equipment required to transmit and receive data via a 56 Kbps line linking the Hood College Library to CARL Systems through the University of Maryland at College Park. In conjunction with the physical connection, the Hood College Library bibliographic database will be manipulated and loaded onto CARL software, allowing the information to be accessed locally and by any other network participants. The networking project will be implemented concurrently with a campuswide networking/automation initiative, which was begun in FY 1991 and will continue into FY 1992.

University of Maine System
Marilyn Lutz, Systems Librarian
Raymond H. Fogler Library
Orono, Maine 04469-0139
207-581-1658
FAX: 207-581-1658
INTERNET: LUTZ@MAINE.MAINE.EDU
BITNET: LUTZ@MAINE
R197A20106 $209,977 1 year

MULTIMEDIA ACCESS TO ARCHIVAL RESOURCES

The University of Maine System Libraries have a history of using the power of the local online catalog on a statewide telecommunications network to provide access to multiple information resources and to expand access to resources locally, regionally, and nationally. The Libraries propose to continue this effort by enhancing the traditional automated library system with multimedia access to three major archival collections of national

significance: Northeast Archives of Folklore and Oral History, Acadian Archives/Archives Acadiennes, and University of Maine Special Collections. Digital image processing technology will be used to develop a documents database linked to bibliographic records in the online catalog. Network access to the image archives will be explored with the storage and retrieval of the documents on database servers configured on local area networks, connected to the statewide telecommunications network.

The grant proposal requests support for the creation of bibliographic and document databases. The University of Maine System will purchase equipment and software and hire staff for scanning, digitizing, storing, retrieving and displaying images of the collection guides, finding aids, tape transcriptions and related photographs and graphic materials in three archival collections. The use of new technology for full text and image document preservation, retrieval and dissemination, and resource sharing, based on direct telecommunications access will facilitate and speed users' access to materials and expand the diversity of resources available online. This project will demonstrate a new kind of library service with the use of information technology in archival management, and strengthen regional and statewide resource sharing.

St. John's College
Inga M. Waite, College Librarian
1160 Camino Cruz Blanca
Santa Fe, New Mexico 87501
505-982-3691 x258
FAX: 505-989-9269
R197A20078 $67,438 2 years

MEEM LIBRARY NETWORK MEMBERSHIP AND RETROSPECTIVE CONVERSION

Meem Library of St. John's College will become a compatible, contributing member in state and national library networking activities by joining AMIGOS Bibliographic Council, Inc. and NEDCOMM (New Mexico Network for Educational Communications), and providing its holdings in electronic form over OCLC and the New Mexico Union List of Serials on CD-ROM. The 2-year project will include start-up costs, hardware, software, staff training, retrospective conversion by AMIGOS with in-house clean-up, original title input and input of new acquisition data during the project by Meem Library staff, and final evaluation.

Network membership will allow Meem Library to participate in electronic interlibrary loan, regional consortia, and shared cataloging. Access to the specialized collection of Meem Library will be increased on a state and national level, and the original title input of this collection will enhance the OCLC database.

Kent State University
Don L. Tolliver, Dean
of Libraries and Media Services
Kent, Ohio 44242
216-672-2962
FAX: 216-672-2265
INTERNET: DTOLLIVE@KENTVM.KENT.EDU
BITNET: DTOLLIVE@KENTVM
R197A20119 $60,425 1 year

OhioLINK IMPLEMENTATION: CREATING THE INFRASTRUCTURE

The purchase and installation of hardware and wire will enable the Kent State University Libraries to become an active participant in OhioLINK. OhioLINK, sponsored by the Ohio Board of Regents, is a statewide, fully-integrated library system, including a union catalog of university libraries' holdings, a gateway to electronic information resources, and a document-delivery system. OhioLINK will play a significant role in Ohio's economic and educational development by providing quick and comprehensive access for researchers in higher education, business, industry and government. Participation in OhioLINK will require that Kent abandon its current automated library system and install a network infrastructure. State funding is not being provided to prepare local sites for OhioLINK implementation.

Reading Area Community College
David Lawrence, Director of Learning Resources and
Assistant to the Vice President
P.O. Box 1706
Reading, Pennsylvania 19603
215-372-4721
FAX: 215-375-8255
R197A20102 $66,496 2 years

CREATING AN ENLARGED PUBLIC DATABASE

Reading Area Community College will create a local resource sharing network involving the Reading Public Library System (one central library and three branch libraries), the Pennsylvania State University Library System (LIAS), the Kutztown University Library (BEARCAT), and the Reading Area Community College library.

To respond to local demand, the college will purchase and place online public access catalogs in the college library, thereby providing access not only to materials of the Reading Area Community College library but also to the collective holdings of the Reading Public Library, LIAS, and BEARCAT.

This project will demonstrate a cost-efficient approach to providing access to library materials and increasing educational opportunity to college students and community residents alike.

Providence College

William F. O'Neil
Director of Capital Support
River Avenue
Providence, Rhode Island 02918
401-865-2414
FAX: 401-865-2815
R197A10002 $79,950 1 year

HELIN CONSORTIUM MEMBERSHIP

This project will enable Phillips Memorial Library to join the Higher Education Library Information Network (HELIN), which was initiated in January of 1990.

The Consortium consists of the University of Rhode Island, Roger Williams College, Rhode Island College, and the Community College of Rhode Island. The collections of these universities and colleges comprise more than 3,500,000 items (including books, publications, microform, and government publications).

The aim of the HELIN consortium is to make available the strengths of each of the individual libraries to the users at all of the colleges. HELIN draws upon the strengths of each college: University of Rhode Island's oceanography, natural and physical sciences collections; Rhode Island College's education and music collections; Roger Williams College's law, historic preservation, and architecture collections; and finally the Community College of Rhode Island's applied technology collection. Providence College would make significant contributions to the network in the areas of philosophy, theology, and local government. In order for the consortium to be truly successful, it must offer an extensive selection of materials.

Green Mountain College

Katharine T. Reichert, Librarian
Griswold Library
Poultney, Vermont 05764
802-287-9313
FAX: 802-287-9313 x340
R197A20076 $86,411 3 years

OCLC MEMBERSHIP AND RETROSPECTIVE CONVERSION

Green Mountain College's Griswold Library will expand and improve resource sharing through technological networking. The library will (1) become a full member of the Online Computer Library Center, Inc. (OCLC); (2) enter all of its holdings, new and old, into the OCLC database; and
(3) produce archival tapes from OCLC records in preparation for an online public access catalog and loading in the Vermont Automated Library System (VALS).

The anticipated results will be improved and expanded library services particularly to the students, faculty, and staff at Green Mountain College and all users of Vermont libraries participating in VALS. Other OCLC users will also benefit as they will have access to the college's resources through interlibrary loan.

Marshall University Research Corporation
L. Josephine Fidler
Director of Libraries
James E. Morrow Library
Huntington, West Virginia 25755-2060
304-696-2318
FAX: 304-696-5858
INTERNET: LIB001@WVNET.EDU
BITNET: LIB001@MARSHALL
R197A20047 $220,000 3 years

UPGRADE OF MORROW LIBRARY MAINFRAME COMPUTER AND SYSTEM

The James E. Morrow Library of Marshall University will acquire and install a Hewlett-Packard (HP) 3000 series 947 mainframe computer (and associated hardware and software) in order to increase the availability of their library resources to both local and remote users. The current system is 9 years old, at the limits of its processing power, and rapidly approaching technological obsolescence. This has resulted in extended response times for users, severely limited access for out-of-library users, and no possibility of expanded services. The VTLS system software used by the library is designed specifically for the Hewlett-Packard hardware, determining the choice of vendor. An upgraded system will provide 15 additional access ports for out-of-library users the first year, increased disk capacity for government documents information the second year, and increased access for other campus and off-campus users the third year.

COMBINATION GRANTS

Georgetown University
Naomi C. Broering, Director
Biomedical Information Resources
Center and Medical Center Librarian
Dahlgren Memorial Library
37th and O Streets, NW
Washington, DC 20007
202-687-1187
FAX: 202-687-1862
INTERNET: BROERINN@GUMDLIB.GEORGETOWN.EDU
R197B20033 $181,019 3 years

A LIBRARY INFORMATION SYSTEM RESOURCE-SHARING PROJECT

The project will enable Georgetown to spearhead a collaborative program with a consortium of 41 libraries to design several dynamic, "next generation" library system modules. The consortium, founded in 1986 to engage in joint Library Information System (LIS) development activities, is known as the Friends of LIS (FLIS). The project goals are to enhance electronic access and improve delivery of information in various print and non-print formats for resource sharing, and through this advanced system, improve medical education, research and patient care. There are four project objectives: (1) create internet access to shared databases; (2) accelerate transmission of documents to users; (3) provide OPAC access to digitized images and; (4) generate outcomes and evaluations by developing a Library Management Information System (LMIS).

A Project Design Advisory Panel composed of FLIS Board and Task Force members will assist project staff.

The project implications and significance are profound in potentially changing the library service paradigm and shaping delivery of information in the future. Unique project features are use of Internet not only to access other library catalogs, but to have a central menu of FLIS databases with transparent transfer capabilities to whatever database a user chooses regardless of geographical location. Automatic online access to document delivery directly from a literature search will be provided from miniMEDLINE, Current Contents, Bioethicsline and the OPACs. An innovative milestone is the search and display of images through the online catalog. Users will navigate easily, unaware of the underlying technical complexities. Another significant milestone is the development of a Library Management Information System (LMIS) to allow the FLIS libraries to organize data efficiently, improve their reports and complete national library association questionnaires such as those of ARL and AAHSLD.

Mid-America Law School Library Consortium, Inc.
c/o Washburn University of Topeka School of Law Library
John E. Christensen, Project Chief
Topeka, Kansas 66621
913-231-1688
FAX: 913-232-1088
INTERNET: ZZCHRI@ACC.WUACC.EDU
R197B20011 $185,475 3 years

TELECOMPUTING TECHNOLOGY AND RESOURCE SHARING IN ACADEMIC LAW LIBRARIES

The Consortium seeks funding to further strengthen regional library resource sharing among 18 law school libraries in seven midwestern states through the development of a sophisticated reference and information transfer network primarily utilizing the Internet. Four components are envisioned (1) providing standardized remote access from each law library to every other Consortium library's publicly available electronic information resources (OPACs, information systems, CD-ROM); (2) providing format and data transfer capabilities (fax, fax board, scan, OCR, print) at each participating library to enhance legal scholarship and facilitate interlibrary resource sharing (information delivery); (3) evaluating practical aspects of imaging technology as a library resource sharing medium by acquiring a joint use workstation library; and (4) establishing a system for sharing specialized law library expertise with other Consortium library patrons (including external patrons through coordinated online search specialization and remote terminal searching).

North Carolina State University
Susan K. Nutter
Director of Libraries
Box 7111
Raleigh, North Carolina 27695-7111
919-515-2843
FAX: 919-515-3628
INTERNET: SUSANNUTTER@NCSU.EDU
BITNET: SKNDHHL@NCSUVM.BITNET
R197B20027 $321,652 2 years

A MODEL AUTOMATED DOCUMENT DELIVERY SYSTEM FOR RESEARCH LIBRARIES

The libraries composing the Triangle Libraries Research Network (TRLN)—North Carolina State University, University of North Carolina at Chapel Hill, and Duke University—will develop an automated document delivery system using a network-based client-server approach. The project will design and implement a model document delivery system providing a highly automated, barrier-free access to collections, and integrating electronic documents, a class of materials increasingly important to research libraries but poorly served in current document delivery systems. The project will have two major components: (1) policy, staffing, and procedural changes to implement service components for document delivery; and (2) an automated document-ordering facility through which patrons request documents.

Automated document ordering will use a client-server design. The client design will permit users to request documents electronically directly from online bibliographic systems maintained by the universities or through other means (e.g. electronic mail). Clients will transmit requests to automated document servers located at each campus. The document servers will use databases of deliverable items, customers (university community members and others served by the universities), and interlibrary loan/circulation policies to determine the formats and delivery methods for materials, authenticate patrons, and set charges and/or establish loan periods. The project defines documents broadly as any item in TRLN collections normally supplied to users: monographs, journal articles, government documents, microforms, and the like. The definition fully integrates electronic documents, such as electronically published journals, scanned materials, databases, and multimedia documents, treating such materials no differently from others in the libraries' collections, and providing for direct electronic delivery of the materials as required. The project's innovative approach to automating labor-intensive operations in document delivery services will cut overhead costs, consequently reducing the initial startup costs to implement the service, as well as any charge-back costs to patrons. The project will greatly expand access to and use of the collections of the TRLN libraries, a unique product of 50 years of cooperative collection development and the second largest collection of library materials in North America.

University of North Dakota-Lake Region
Sharon L. Evensen, JORD Project Director/
UND-Lake Region Librarian
Paul Hoghaug Library
1801 North College Drive
Devils Lake, North Dakota 58301
701-662-8683
FAX: 701-662-1342
BITNET: LR005593
R197B20004 $161,138 2 years

UNIVERSITY OF NORTH DAKOTA-LAKE REGION'S COMBINATION GRANT PROJECT

The University of North Dakota-Lake Region, the University of North Dakota-Williston, and North Dakota State University-Bottineau will use grant funds to form an OCLC cluster through Minitex; acquire the computer and communications equipment needed to prepare them to join the Online Dakota Information Network; and provide the personnel support to prepare records to merge with the Network. The automated library Network system also has modules to automate functions in circulation, inter-library loan, acquisitions, and serials. National standard electronic records will permit the North Dakota database to link with those in Minnesota, South Dakota, and Manitoba. Through resource-sharing, students, faculties, and communities will be able to utilize, rapidly and efficiently, a greatly expanded collection of learning resources for study and research.

SERVICES TO INSTITUTIONS GRANTS

Center for Research Libraries
Donald B. Simpson, President
6050 South Kenwood Avenue
Chicago, Illinois 60637
312-955-4545
FAX: 312-955-4339
INTERNET: SIMPSON@UHURU.UCHICAGO.EDU
R197C20006 $206,861 (year 1*) 3 years

INSTALLATION OF AN AUTOMATED LIBRARY SYSTEM AT THE CENTER FOR RESEARCH LIBRARIES

This project is designed to facilitate bibliographic access to the collections and access to the resource sharing programs of the Center for Research Libraries through the installation of an automated library system, including an online public access catalog (OPAC) that will be available through Internet in the mid-1990's. Three system

components will be purchased and installed: the OPAC, an acquisitions module, and a serials check-in module. When the system is fully functional, it will enable the Center to provide online access to the Center's bibliographic files to research libraries and individuals throughout the world through Internet; ensure complete files of currently received serials (approximately 14,000 titles) and currently received newspapers (over 400 titles); improve the efficiency of ordering and receiving materials to meet immediate research needs; and provide information on the implementation of the collection development policies to facilitate cooperative collection development decisions.

*This project will be eligible for noncompeting continuation awards in years 2 and 3.

Westchester Academic Libraries
c/o John Stromquist, Manager
Department of General Service/IS Division
19 Bradhurst Avenue
Hawthorne, New York 10532
914-593-2373
FAX: 914-285-3753
R197C20016 $358,681 2 years

FULL TEXT RETRIEVAL THROUGH MPALS (Multi-Project for Automated Library System) OPAC AND COMMANDS VIA FAX AND CD-ROM

The Westchester Academic Libraries Directors Organization (WALDO) consortium proposes an automated full-text image delivery system. Designed to provide more than 99,000 patrons at 19 institutions broad access to full-text image of periodical articles, the proposed system will allow a patron to search first for citations in two UMI databases using the basic OPAC commands. A patron finding citations will be prompted to decide if full text is desired. If so, the patron will key a request for available full-text articles. The request will be transmitted to the center serving the OPACs of the 19 institutions where the image is stored on a host optical disk. For 16 institutions, the request will be sent to a central telefacsimile server for transmission to the user library's fax machine. For three institutions, the request will be distributed to the institutions' in-house CD-ROM system printing to a laser printer. In all cases, the commands learned for the OPAC are used for searching other external databases. No human intervention occurs between keying the request and receiving the paper copy. Periodical resources will be expanded, and libraries will be able to offer equal services, regardless of size or locally available technical expertise.

RESEARCH AND DEMONSTRATION GRANTS

San Francisco State University
Harriet Talan, Associate Librarian
J. Paul Leonard Library
1600 Holloway Avenue
San Francisco, California 94132
415-338-2132
FAX: 415-338-6199
INTERNET: HTALAN@SFSU.EDU
R197D20003 $123,839 1 year

LIBRARY SKILLS TAUGHT WITH A MULTIMEDIA "ELECTRONIC WORKBOOK"

This project will compare existing library skills workbooks and formal bibliographic instruction coursework with a library skills "electronic workbook". The two traditional instruction methods will be compared to an integrated set of multimedia, interactive, computer-assisted skill units (the workbook) designed to teach basic library research skills. The result will be a product that can be widely incorporated by libraries into their user education programs.

Although the instructional systems which are being compared are primarily for libraries serving postsecondary institutions, the newly developed "electronic workbook" will be adaptable for use by high school and public libraries to meet the needs of their local environments. The proposed project is the second phase of a two-phase project, the first phase of which was funded in 1991 by the U.S. Department of Education, the California State Library (Library Services and Construction Act grant), and Apple Computer, Inc. (Library of Tomorrow grant).

University of Minnesota-Twin Cities
Brent Allison, Head
John R. Borchert Map Library
S 76 O.M. Wilson Library
Minneapolis, Minnesota 55455
612-624-0306
FAX: 612-626-9353
INTERNET: B-ALLI@VM1.SPCS.UMN.EDU
BITNET: B-ALLI@UMINN1
R197D20003 $133,058 (year 1*) 2 years

AN AUTOMATED CARTOGRAPHIC INFORMATION CENTER

The University of Minnesota project is being designed to provide end users with direct access to locally owned and remotely accessed digital cartographic information. The latest mapping software and geographic information system (GIS), will be employed by this 2-year project funded at $133,058 for first year.

*This project will be eligible for a noncompeting continuation award for year 2.

NONCOMPETING CONTINUATIONS

University of Florida's
Center for Library Automation
James F. Corey, Director
2002 NW 13th Street, Suite 320
Gainesville, Florida 32609
904-392-9020
R197D00030 $15,138 last of 3 years

OSI AND Z39.50 RESEARCH AND DEMONSTRATION PROJECT

The Florida Center for Library Automation (FCLA), which is charged with automating the libraries at all nine universities of the State University System (SUS), is developing the capability of linking the SUS shared NOTIS system to other automated library systems via the NISO Z39.50 Information Retrieval protocol, using the Open Systems Interconnect (OSI) standard. This project would enable FCLA to support a standard interface with other library systems both inside and outside Florida, specifically including the community college system.

University of Minnesota
Joseph Branin, Director
Humanities/Social Science Library
and Dr. George D'Elia
Information and Decision Sciences Dept.
499 Wilson Library
309 19th Avenue South
Minneapolis, Minnesota 55455
612-624-4520
R197D00011-91 $193,350 last of 3 years

THE IMPLEMENTATION AND EVALUATION OF AN INTEGRATED INFORMATION CENTER IN AN ACADEMIC ENVIRONMENT

The University Libraries in collaboration with the Carlson School of Management and the Hubert H. Humphrey Institute of Public Affairs, is implementing an Integrated Center to serve the scholarly and administrative information requirements of these two units. This project is demonstrating and evaluating a model for delivering information services.

Mississippi University for Women
David L. Payne
Director of Library Services
John Clayton Fant Memorial Library
W-Box 1625
Columbus, Mississippi 39701
R197A00010-91 $36,910 1 year

The project will continue to increase significantly the Mississippi University for Women's contribution to regional, state and national library networks by sharing information resources through inputting its monographic records

onto the Online Computer Library Center (OCLC) and the Computerized Library Services, Inc. (CLSI) databases. The project will also conduct an evaluation of the impact of the CLSI/OCLC database and other new technologies used to participate in the Mississippi CLSI Network.

Rutgers University
Paul B. Kantor, Professor
School of Communication, Information,
and Library Studies
4 Huntington Street
New Brunswick, New Jersey 08903
R197D10033 $91,007 2nd of 3 years

ADAPTIVE NETWORK LIBRARY INTERFACE

Rutgers University is constructing and studying a new interface to the online catalog in libraries, based on pointers from book to book, supplied by users of the catalog, and managed by the new interface. The Adaptive Network Library Interface (ANLI) is being installed at four libraries and studies over 3 years.

This approach to library access is related to the concept of neural net computation. Research objectives include the study of patterns of adoption, the impact of ANLI on its users, the relation of the ANLI network to other networks among users, and the relation of the network to other schemes for classifying and cataloging library materials. The project team includes information scientists and communications scientists.

University of Wisconsin
John Grozik, Associate Director
Educational Communications Division
414-229-5477
and
Sona Karentz Andrews, Professor
Department of Geography
P.O. Box 413
Milwaukee, Wisconsin 53201
414-229-4866
R197D10036 $84,550 2nd of 2 years

GEOGRAPHY AND MAPPING INTERACTIVE VIDEODISC AND DATABASE

Two basic objectives of the project are to enable international access to the American Geographical Society Collection through the creation of a visual archive of more than 30,000 images coupled to a powerful, flexible database; and the creation of an interactive videodisc which illustrates the broad and diverse topic of mapping, as well as to show how maps are used to understand the physical and human geography of our planet.

Maps and images from the internationally renowned American Geographical Society Collection at the University of Wisconsin at Milwaukee are forming the core of the images used in this interactive videodisc. The research team is creating linear video segments that highlight and explain various map elements and the processes involved in mapping.

The researchers are recording thousands of video still frames of maps, charts, globes, and photographs which display a wide range of spatial images covering different parts of the world from earliest times to automated satellite imagery.

The University of Wisconsin at Milwaukee is designing index software and a database which is being used interactively by researchers, archivists, instructors, and students to access data and related images. The videodisc and software will be evaluated by experts in the fields of cartography and geography prior to duplication for distribution.

The team expect that an international market exists for a comprehensive multimedia cartobibliography and will distribute the program for use in libraries and museums, as well as for use in cartography, geography, and related disciplinary courses.

BIOTECHNOLOGY EDUCATION INFORMATION DEMONSTRATION PROJECT GRANT

Iowa State University
Nancy L. Eaton
Dean of Library Services
302 Parks Library
Ames, Iowa 50011-2140
515-294-1885
FAX: 515-294-2112
BITNET: JL.NLE@ISUMVS
INTERNET: JL.NLE@ISUMVS.IASTATE.EDU

R197E20003 $2,500,000 3 years

APPLICATION OF KNOWLEDGE MANAGEMENT CONCEPTS TO THE INTERDISCIPLINARY AREA OF BIOTECHNOLOGY

The interdisciplinary area of biotechnology poses particular problems for information management as it crosses agriculture, medicine, veterinary sciences, and pure sciences. Much of the research, for example the human and plant genome databases, is not in traditional formats. While faculty increasingly rely on the Internet to communicate and access remote data sources, access to databases and electronic information by the "end-user" is poorly organized as resources on the Internet are unstructured. This project would apply concepts of "knowledge management" and IAIMS (Integrated Academic Information Management Systems) to the identification of published and electronic resources in biotechnology, provide access to researchers and students via the Internet through the development of navigation tools and expert systems, and help faculty integrate these tools into the teaching of selected courses following a "problem-solving" curriculum model which lends itself to direct use of electronic information resources by students. This project will serve as a prototype for the library's role in the application of "knowledge management" concepts to a "problem-solving" instruction model in biotechnology.

COLLEGE LIBRARY TECHNOLOGY AND COOPERATION GRANTS PROGRAM
Projects Funded Under HEA Title II-D
Summary Listing for Fiscal Year 1992

NETWORKING

	CITY	STATE	FUNDED GRANTED
Arizona State University[1]	Tempe	AZ	$ 271,829
Hawaii Loa College[2]	Kaneohe	HI	23,416
Oakton Community College	Des Plaines	IL	171,653
Rockford College	Rockford	IL	70,455
Louisiana State University	Baton Rouge	LA	162,469
Berkshire Community College	Pittsfield	MA	86,761
Greenfield Community College	Greenfield	MA	69,456
Westfield State College	Westfield	MA	118,891
Hood College	Frederick	MD	45,695
University of Maine System	Orono	MA	209,977
St. John's College	Santa Fe	NM	67,438
Kent State University	Kent	OH	60,425
Reading Area Community College	Reading	PA	66,496
Providence College[2]	Providence	RI	79,950
Green Mountain College	Poultney	VT	86,411
Marshall University	Huntington	WV	220,000
(mean award size $113,208)		Subtotal	$1,811,322

COMBINATION

	CITY	STATE	FUNDING GRANTED
Georgetown University	Washington	DC	$ 181,019
Mid-American Law School Library Consortium	Topeka	KS	185,475
North Carolina State University	Raleigh	NC	321,652
University of North Dakota Lake Region	Devils Lake	ND	161,138
(mean award size $212,321)		Subtotal	$ 849,284

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SERVICES TO INSTITUTIONS

	CITY	STATE	FUNDING GRANTED
Center for Research Libraries[1]	Chicago	IL	$ 206,861
Westchester Academic Libraries	White Plains	NY	358,681
(mean award size $282,771)		Subtotal	$ 565,542

RESEARCH AND DEMONSTRATION

	CITY	STATE	FUNDING GRANTED
San Francisco State University	San Francisco	CA	$ 123,839
University of Minnesota[1]	Minneapolis	MN	133,058
(mean award size $128,449)		Subtotal	$ 256,897

NONCOMPETING CONTINUATIONS

	CITY	STATE	FUNDED GRANTED
University of Florida's Center for Library Automation	Gainesville	FL	$ 15,138
University of Minnesota[2]	Minneapolis	MN	193,350
Mississippi University for Women	Columbia	MS	36,910
Rutgers University	New Brunswick	NJ	91,007
University of Wisconsin	Milwaukee	WI	84,550
(mean award size $84,191)		Subtotal	$ 420,955

BIOTECHNOLOGY[3]

	CITY	STATE	FUNDING GRANTED
Iowa State University	Ames	IA	$2,500,000
		Total	$6,404,000

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[1]Recommended for noncompeting continuation awards in fiscal year 1993.

[2]Competed in fiscal year 1991 and funded in early fiscal year 1992.

[3]These funds were appropriated for fiscal year 1992; the Biotechnology Education Information Demonstration Project Award is not expected in succeeding years.

LP 93-4012

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